

MALVERN TCE SITE
ADMINISTRATIVE RECORD FILE *
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III. REMEDIAL RESPONSE PLANNING

1. Report: Work Plan for Hydrogeological Investigation: Malvern TCE Site, prepared by U.S. Geological Survey (USGS), 9/15/94. P. 300001-300026.
2. Report: Data Summary Report for Malvern TCE Site/Appendices A through E, prepared by CH2M Hill, 11/94. P. 300027-300225.
3. Report: Data Summary Report for Malvern TCE Site, prepared by CH2M Hill, 4/95. P. 300226-300365.
4. Report: Sampling and Analysis Plan for Malvern TCE Site Remedial Investigation and Feasibility Study, prepared by CH2M Hill, 2/96. P. 300366-300533.
5. Report: Sampling and Analysis Plan for Malvern TCE Site Remedial Investigation and Feasibility Study, Appendices, prepared by CH2M Hill, 2/96. P. 300534-300637.
6. Report: Remedial Investigation Report for Malvern TCE Site, prepared by CH2M Hill, 01/97. P. 300638-301552. Appendixes A through J are attached.
7. Memorandum to Ms. Linda Dietz, U.S. EPA, from Mr. Charlie Miller, and Mr. Mark Lucas, CH2M Hill, re: Additional remedial alternatives for relocation of contaminated soil from the former disposal/mounded area to the main plant area at the site, 5/29/97. P. 301553-301566.
8. Report: Final Feasibility Study Report, prepared by CH2M Hill, 6/97. P. 301567-301945.
9. Memorandum to the file from Ms. Linda Dietz, U.S. EPA, re: Overview of response actions performed at the site, 9/13/95. P. 301946-301947.

* Administrative Record File available 11/8/95 updated 3/20/96, 7/3/96, 2/7/97, 6/16/97, 6/24/97, 12/3/97, 2/13/98, and 8/14/98.

10. Report: Data Summary Report for Residential Well Groundwater Sampling at Malvern TCE Site - 1995, prepared by CH2M Hill, 1/96. P. 301948-301964.
11. Letter to Mr. Mark Lucas, CH2M Hill, from Mr. Preston Luitweiler, Philadelphia Suburban Water Company, re: Great Valley Well water quality analyses and public water availability along Phoenixville Pike and Conestoga Road, 9/10/96. P. 301965-301969. The following are attached:
 - a) October 19, 1992, mineral analysis results;
 - b) February 3, 1992, heavy metals analysis results;
 - c) November 4, 1992, listing of volatile pesticide, herbicide, and semi volatile organics results; and
 - d) November 23, 1992, volatile organics results.
12. Memorandum to Ms. Linda Dietz, and Ms. Barbara Rudnick, U.S. EPA, from Mr. Mark Lucas, CH2M Hill, re: Evaluation of Fate and Transport Model Codes to Determine Preliminary Remediation Goals at the site, 11/20/96. P. 301970-301984.
13. Report: Hydrogeologic Investigation of the Malvern TCE Superfund Site, Chester County, Pennsylvania, prepared by United States Department of the Interior (U.S. DOI), 12/9/96. P. 301985-302203. A December 9, 1996, memorandum to Ms. Linda Dietz and Ms. Barbara Rudnick, U.S. EPA, and Mr. James M. Gerhart, Mr. Dennis W. Risser, and Ms. Kim L. Wetzell, U.S. DOI, from Mr. Ronald A. Sloto, U.S. DOI, regarding revisions made to and transmittal of the report, are attached.
14. Letter to Ms. Linda Dietz, U.S. EPA, from Ms. April M. Flipse, Pennsylvania Department of Environmental Protection (PADEP), re: PADEP comments on the Draft Remedial Investigation Report for the site, 12/11/96. P. 302204-302205.
15. Memorandum to Ms. Linda Dietz, and Ms. Barbara Rudnick, U.S. EPA, from Mr. Mark Lucas, CH2M Hill, re: Mathematical modeling using the new EPA soil screening

level method to establish preliminary remediation goals for soil contamination at the site, 12/20/96.
P. 302206-302227.

16. Letter to Ms. Linda Dietz, U.S. EPA, from Ms. April M. Flipse, PADEP, re: PADEP response to EPA's October 17, 1996, request for applicable and/or relevant and appropriate requirements (ARARs) for Pennsylvania water quality cleanup, 1/7/97. P. 302228-302230.
17. Letter to Ms. Linda Dietz, U.S. EPA, from Ms. April M. Flipse, PADEP, re: PADEP comments on the Draft Feasibility Study Report for Soil and Groundwater Remediation at the site, 2/12/97. P. 302231-302242.
18. Memorandum to Ms. Linda Dietz, and Ms. Barbara Rudnick, U.S. EPA, from Mr. Mark Lucas, Mr. Steven Shea, and Mr. Cory Wilson, CH2M Hill, re: Evaluation of modified soil and ground water remedial alternatives at the former disposal/mounded area at the site, 2/19/97. P. 302243-302266.
19. Proposed Plan, Malvern TCE Superfund Site, Malvern, Pennsylvania, 6/97. P. 302267-302305.
20. Report: Final Ecological Risk Assessment, Malvern TCE Site, Malvern, Chester County, Pennsylvania, prepared by U.S. Environmental Response Team Center, 6/97. P. 302306-302636.
21. Letter to Ms. Linda Dietz, U.S. EPA, from Ms. April Flipse, PADEP, re: Comments concerning the review of the May 20, 1997, Draft Proposed Plan, 6/18/97. P. 302637-302638.
22. Letter to Ms. Linda Dietz, U.S. EPA, from Mr. Jack Hammond, North Industrial Chemicals, Inc. (NIC), re: Concern and questions regarding EPA's actions toward Chemclene's treatment of the environment, 7/16/97. P. 302639-302639.
23. Report: Malvern Site Study Group, Comments on the Malvern TCE Superfund Site Proposed Plan and Remedial Investigation/Feasibility Study, prepared by Environmental Resources Management (ERM), 8/29/97. P. 302640-302742. An August 29, 1997, transmittal letter to Ms. Linda Dietz, U.S. EPA, from Mr. Mark Stevens, Langsam, Stevens & Morris, and an August 29,

1997, letter addendum to Mr. Mark Stevens, Langsam, Stevens & Morris, from Mr. Bruce Molholt, ERM, regarding quantitative risk assessments for EPA Class C carcinogens, are attached.

24. Letter to Ms. Linda Dietz, U.S. EPA, from Mr. Don Henne, U.S. Department of the Interior (DOI), re: Documentation that the DOI provided a copy of the Proposed Plan to the Valley Forge National Historic Park's Natural Resources Specialist, and request for a meeting to discuss issues of concern, 9/2/97. P. 302743-302743.
25. Letter to Ms. Linda Dietz, U.S. EPA, from Mr. Philip Hinerman, Fox, Rothschild, O'Brien & Frankel, re: Comments on the Site Feasibility Study and the Proposed Plan on behalf of the members of the Malvern De Minimis PRP Group, 9/2/97. P. 302744-302762. A September 4, 1997, letter to Ms. Linda Dietz, U.S. EPA, from Mr. Philip Hinerman, Fox, Rothschild, O'Brien & Frankel, regarding a correction to a page of the September 2, 1997, comments, is attached.
26. Memorandum to Ms. Linda Dietz, U.S. EPA, from Ms. Joan Johnson and Mr. Michael Walters, U.S. EPA, re: Summary of the July 9, 1997, meeting between EPA and Malvern TCE Site PRPs, 9/30/97. P. 302763-302771. An undated attendance list from a meeting and a summary of ERM's preliminary findings, dated July 9, 1997, are attached.
27. Memorandum to the file from Ms. Linda Dietz, U.S. EPA, re: Documentation of a conversation with Mr. Eric Reed, East Whiteland Township, on September 29, 1997, concerning the property zoning at the site, and stating that the use of the property is lawful, 10/7/97. P. 302772-302772.
28. Letter to Ms. Linda Dietz, U.S. EPA, from Ms. April Flipse, PADEP, re: Review comments on the October 2, 1997, final draft ROD, 10/14/97. P. 302773-302774.
29. Letter to Ms. April Flipse, PADEP, from Ms. Linda Dietz, U.S. EPA, re: Response to PADEP's October 14, 1997, review comments on the final draft ROD, and explanation of how the comments have been incorporated, 10/17/97. P. 302775-302776.

30. Letter to Ms. Linda Dietz, U.S. EPA, from Ms. April Flipse, PADEP, re: Review comments on the October 17, 1997, final draft ROD, 11/4/97. P. 302777-302779.
31. Letter to Ms. April Flipse, PADEP, from Ms. Linda Dietz, U.S. EPA, re: Response to PADEP's November 4, 1997, review comments on the final draft ROD, specifically concerning the Main Plant Area remedies, 11/13/97. P. 302780-302781.
32. Record of Decision, Malvern TCE Superfund Site, 11/97. P. 302782-302963.
33. Letter to Mr. Abraham Ferdas, U.S. EPA, from Mr. Joseph Feola, PADEP, re: PADEP's concurrence with the remedies selected by EPA in the ROD for the site, 11/26/97. P. 302964-302966.
34. Letter to Ms. Linda Dietz, U.S. EPA, from Mr. E. Scott Kalbach, U.S. DOI, re: Valley Forge National Historical Park's comments on the Proposed Plan, (undated). P. 302967-302968.
35. Letter to Ms. Linda Dietz, U.S. EPA, from Mr. Mark Lucas, CH2M Hill, re: Data summary report for the results of residential well samples collected in June 1996, December 1996, and June 1997, 12/8/97. P. 302969-303005. The following are attached:
 - a) table 1, "Residential Well Sampling List;"
 - b) table 2, "Residential Well Sampling - Physical Parameters Prior to Sampling;"
 - c) table 3, "Residential Well Carbon Filter Treatment System List;"
 - d) table 4, "Malvern TCE Residential Well Sampling, Detected Observations Only, June 1996;"
 - e) table 5, "Malvern TCE Residential Well Sampling, Detected Observations Only, December 1996;"
 - f) table 6, "Malvern TCE Residential Well Sampling, Detected Observations Only, June 1997."

36. Letter to Ms. Linda Dietz, U.S. EPA, from Mr. Mark Lucas, CH2M Hill, re: Data summary report for the ground water samples collected at the site during December 1996, 12/16/97. P. 303006-303037. The following are attached:
- a) table 1, "Monitor Well Sampling, Physical Parameters Prior to Sampling, December 1996;"
 - b) table 2, "Malvern TCE, Monitor Well Sampling, Detected Observations Only, December 1996;"
 - c) figure 1, "Potentiometric Surface Map in Ledger Aquifer at Main Plant Area (MPA), December 2, 1996;"
 - d) figure 2, "Potentiometric Elevations in Ledger Aquifer at Former Disposal Area/Mounded Area (FDA/MA), December 2, 1996;"
 - e) figure 3, "Chlorinated Aliphatic Hydrocarbon Compounds along Centerline of Plume at MPA, December 1996;"
 - f) figure 4, "Isopleth Map of Total Volatile Organic Compounds (VOC) Concentrations at MPA, December 1996;"
 - g) figure 5, "Total Trichloroethene (TCE), 1,1,1-Trichloroethane (TCA), and Tetrachloroethene (PCE) Concentrations along Centerline of Contaminant Plume, 1981-1996;"
 - h) figure 8, "Chlorinated Aliphatic Hydrocarbons along Centerline of Plume at FDA/MA, 1981-1996;"
 - i) figure 9, "Chlorinated Aliphatic Hydrocarbon Compounds along Centerline of Plume at FDA/MA, December 1996."
37. Report: Remedial Cost Estimate, Malvern TCE Site, prepared by Walter B. Satterthwaite Associates, Inc. (Satterthwaite Associates), 3/31/98. P. 303038-303155. A July 27, 1998, transmittal letter to Ms. Joan Johnson, U.S. EPA, from Mr. Paul White, Satterthwaite

Associates, is attached.

V. COMMUNITY INVOLVEMENT/CONGRESSIONAL CORRESPONDENCE/IMAGERY

1. U.S. EPA Fact Sheet, re: Facts about trichlorethylene (TCE), 6/92. P. 5000001-5000002.
2. U.S. EPA Activities Update, Malvern TCE Superfund Site, re: Site background, current activities, and contamination found at the site, 7/95. P. 5000003-5000006.
3. U.S. EPA Activities Update, Malvern TCE Superfund Site, re: Site background, current activities, and soil and groundwater investigations, 10/95. P. 5000007-5000008.
4. U.S. EPA Activities Update, Malvern TCE Superfund Site, re: Site background, current activities, and soil sampling, 3/95. P. 5000009-5000010.
5. U.S. EPA Information Meeting announcement for the Malvern TCE Superfund Site, 4/96. P. 5000011-5000012.
6. Report: Community Relations Plan, Malvern TCE Superfund Site, prepared by U.S. EPA, 5/96. P. 5000013-5000057.
7. U.S. EPA Fact Sheet, Malvern TCE Superfund Site Activities Update, Malvern, Pennsylvania, 10/95. P. 5000058-5000059.
8. Transcript of public meeting, Malvern TCE Site, 7/16/97. P. 5000060-5000158.
9. Letter to Ms. Linda Dietz, U.S. EPA, from Mr. Donald Reimenschneider, East Whiteland Township, re: Comments concerning the July 16, 1997, public meeting, 8/15/97. P. 5000159-5000162. An undated list of EPA's preferred alternatives, an undated figure entitled, "Isopleth Concentration Map of Total VOCs, Main Plant Area-1996, Malvern TCE," and an undated figure entitled, "Main Plant Area Alternative MPA G-5 Groundwater Collection and Treatment, Malvern TCE," are attached.
10. Letter to Ms. Linda Dietz, U.S. EPA, from Concerned Residents of East Whiteland Township (CREW), re: Comments on the Proposed Plan, 8/20/97. P. 5000163-5000171. An undated memorandum to U.S. EPA regional administrators, from Mr. Elliott Laws, U.S. EPA, regarding Superfund ground water RODs, is attached.

11. Letter to Ms. Linda Dietz, U.S. EPA, from Mr. Chuck Marshall, Pennsylvania Environmental Defense Foundation, re: Comments on the Proposed Plan and support of EPA's choice of the preferred treatment alternative for the Record of Decision (ROD), 8/25/97. P. 500172-500172.
12. Letter to U.S. EPA from Ms. Paula and Mr. Charles Kocher, Malvern residents, re: Comments on the concept of providing public water to homes near the site, 8/27/97. P. 500173-500173.
13. Letter to Ms. Linda Dietz, U.S. EPA, from Mr. Donald Reimenschneider, East Whiteland Township, re: Concerns about ground water contamination in areas south of the site, 9/17/97. P. 500174-500174.
14. Malvern TCE Comment/Question Form, completed by Mr. Nick Agnew, Malvern resident, (undated). P. 500175-500175
15. Malvern TCE Comment/Question Form, completed by Mr. Martin Lutz, Malvern resident, (undated). P. 500176-500176.
16. Malvern TCE Comment/Question Form, completed by Ms. Karen McLay, Malvern resident, (undated). P. 500177-500177.
17. Letter to Ms. Linda Dietz, U.S. EPA, from Mr. Jeffrey Crooks, Malvern resident, re: Concern and comments on the site, (undated). P. 500178-500179.

GUIDANCE DOCUMENTS

1. Chester County Health Department Rules and Regulations, Chapter 500: "Water, Nuisances, Sewage and Liquid Waste," 1/15/93.
2. Federal Register Notice, "U.S. EPA Corrective Action Management Units and Temporary Units; Corrective Action Provisions Under Subtitle C, Vol. 58, No. 29," 2/16/93.
3. U.S. EPA Fact Sheet, EPA Issues Final Rules for Corrective Action Management Units and Temporary Units, 3/93. A March 1, 1993, transmittal memorandum to U.S. EPA Waste Management Division Directors, from Ms. Sylvia K. Lowrance, U.S. EPA, is attached.